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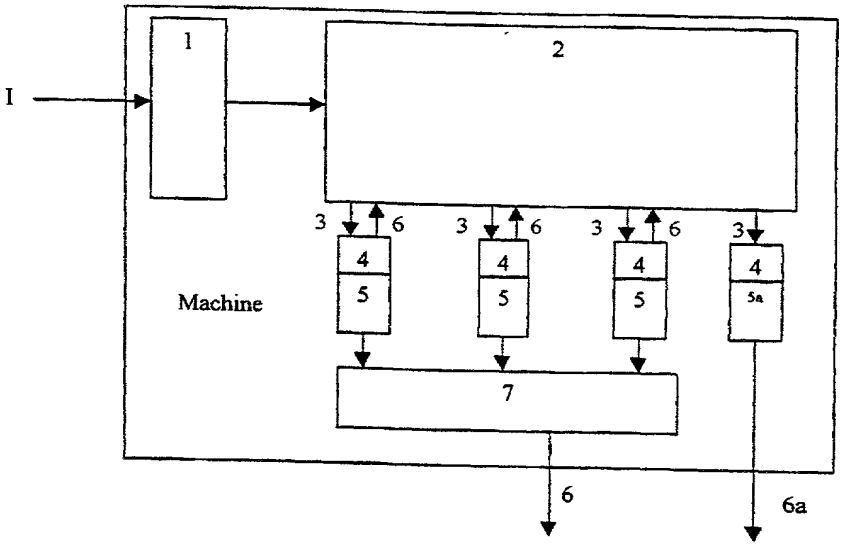
(54) Title: DATA PROCESSING APPARATUS



(57) Abstract: A data processing apparatus operates on data in different formats to improve computational efficiency in a complex system. The apparatus includes a backplane (2) for data signals in different formats such as electrical and optical formats, adaptive filters (4) that receive data signals in the different formats from the backplane, and processors (5) to receive data derived from the backplane in the different formats, at least one of the processors being operable to process data from one of the filters and being responsive to the outcome of data filtering performed by at least one other of the filters to adapt the processing that is carried out. A code-breaking process is given as an example.

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Abstract

Data processing apparatus

A data processing apparatus operates on data in different formats to improve computational efficiency in a complex system. The apparatus includes a backplane (2) for data signals in different formats such as electrical and optical formats, adaptive filters (4) that receive data signals in the different formats from the backplane, and processors (5) to receive data derived from the backplane in the different formats, at least one of the processors being operable to process data from one of the filters and being responsive to the outcome of data filtering performed by at least one other of the filters to adapt the processing that is carried out. A code-breaking process is given as an example.